

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 July 2004 (29.07.2004)

PCT

(10) International Publication Number
WO 2004/064010 A3

(51) International Patent Classification⁷: G09B 23/32.
23/34

(21) International Application Number:
PCT/GB2004/000137

(22) International Filing Date: 13 January 2004 (13.01.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0300703.6 13 January 2003 (13.01.2003) GB

(71) Applicant and

(72) Inventor: BROWNE-WILKINSON, Oliver [GB/GB];
34 Newburgh Road, Acton, London W3 6DQ (GB).

(74) Agents: HARDING, Richard, Patrick et al.; Marks &
Clerk, 4220 Nash Court, Oxford Business Park South, Ox-
ford, Oxfordshire OX4 2RU (GB).

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

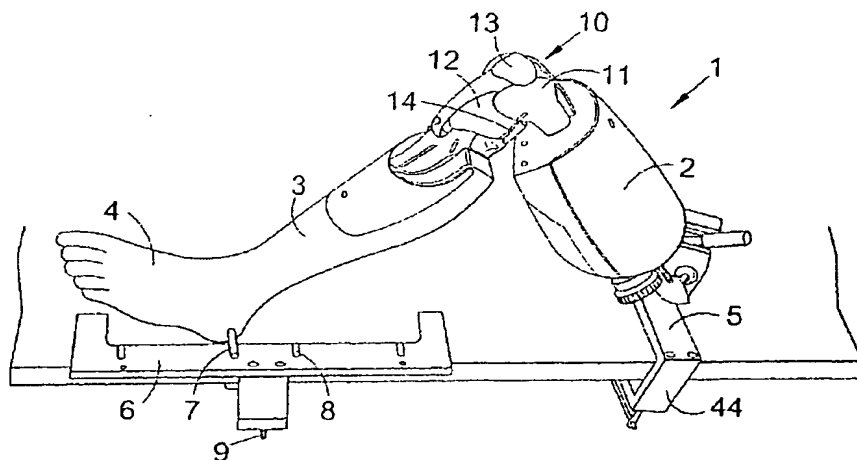
(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,
GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

[Continued on next page]

(54) Title: ORTHOPAEDIC DEMONSTRATION AID



(57) Abstract: An orthopaedic skeletal joint demonstration aid (1) is provided for demonstrating surgical orthopaedic techniques and comprises first and second joint portions (11, 12) capable of being manipulated relative to one another to mimic the action of a skeletal joint. The first joint portion (11) is detachably secured to one end of an elongate first shaft portion (2) to enable replacement of the first joint portion (11). Furthermore an adjustable holding mechanism (5) is provided for holding a part of the first shaft portion (2) remotely of said one end in a required position such that the first joint portion (11) is at the correct anatomical orientation for the purposes of the required surgical orthopaedic procedure. The holding mechanism (5) comprises an adjustable ball and socket joint and a locking mechanism for locking the ball and socket joint when the first shaft portion (2) is in the required position. In addition a foot plate (6) is provided for holding the second joint portion, and the second shaft portion (3) to which it is detachably connected, in the required position.



(88) Date of publication of the international search report:
28 October 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

 Int'l Application No
 PCT/GB2004/000137

 A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 G09B23/32 G09B23/34

According to International Patent Classification (IPC) or, to both national classification and IPC

B. FIELDS SEARCHED

 Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 G09B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/001483 A (RIENER ROBERT ; BURKGART RAINER (DE)) 3 January 2003 (2003-01-03) abstract figures 11,3,7B page 21, line 16 - line 29 page 22, line 18 - line 32	1-3,6-8, 20,21
A		4,5
X	US 4 433 961 A (CHANDLER EUGENE J) 28 February 1984 (1984-02-28) figures 20-24 column 8, line 25 - line 60 column 9, line 1 - line 30 column 10, line 3 - line 55	1,2,4-6, 15,16, 20-22

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

12 May 2004

Date of mailing of the international search report

23/08/2004

Name and mailing address of the ISA

 European Patent Office, P.B. 5018 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Hanon, D

INTERNATIONAL SEARCH REPORT

Int. Application No
PCT/GB2004/000137

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 03001483	A	03-01-2003	DE	10130485 A1	16-01-2003
			BR	0210702 A	20-07-2004
			WO	03001483 A1	03-01-2003
			WO	03001482 A2	03-01-2003
			EP	1402503 A1	31-03-2004
			EP	1402502 A2	31-03-2004
<hr/>					
US 4433961	A	28-02-1984	US	4331428 A	25-05-1982
<hr/>					

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-8, 15-16, 20-22

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-8

Orthopaedic demonstration aid comprising two facsimile bone portions, one of which is secured by a shaft portion which allows CORRECT ANATOMICAL ORIENTATION, the shaft being itself held by holding means at its end opposing the one securing the facsimile bone portion

1.1. claims: 20-22

Orthopaedic demonstration aid comprising at least one facsimile joint portion and a facsimile SOFT TISSUE PORTION overlying the joint portion

1.2. claims: 15-16

Orthopaedic demonstration aid comprising two facsimile joint portions and a PATELLA PORTION held in position by ligament means

2. claims: 9-14

Orthopaedic demonstration aid comprising two facsimile joint portions which are held together by ADJUSTABLE facsimile ligament means

3. claims: 17-18

Orthopaedic demonstration aid comprising two facsimile joint portions, one of which is secured by a shaft, said shaft further featuring a detachable connector which can RESIST AXIAL ROTATION of the first joint relative to the shaft

4. claim: 19

Orthopaedic demonstration aid comprising at least one facsimile joint portion which is secured to a shaft portion, further featuring facsimile ligament means connected to the joint portion, the shaft further featuring QUICK RELEASE MEANS to allow the joint portion and the ligament means to be detached from the shaft
